

OEM300 Specifications

Parameter

Value

AC Inputs

Low Range: jumper installed  
 High Range: jumper removed  
 Forbidden Range:  
 Input Filter  
 Inrush Current  
 Input limit:

90 VAC to 132 VAC  
 180 VAC to 265 VAC  
 132 VAC to 180 VAC  
 The power module has a line filter at the AC input that minimizes noise energy sent out to the power line.  
 The power module has an initial power up current limiter.  
 40A max inrush current

DC Outputs

Voltage  
 Current  
 Power

75 VDC ±5% (fixed; not adjustable)  
 2.7A at 75 VDC continuous current; 4.0A at 75 VDC peak current  
 200 W continuous; 300 W peak—30 sec max at peak, 10% duty cycle at max (Example: 30 sec at 300W, followed by a minimum of 270 sec at 200 W or less)

Grounds

Output grounds are internally connected to each other, to the AC input ground (labeled EARTH), and to the cover of the OEM300.

Voltage Regulation

±5% max

Efficiency

A minimum of 80% efficiency at full output load

Over-temperature Protection

Will shut down if heatplate reaches 60°C (140°F). This is a latched condition. To resume normal operations, turn off AC power, cool the power module below 30°C (86°F) and then turn on AC power.

Power Dump

This circuit can dissipate excess energy from load regeneration conditions.

Threshold Voltage:

85 VDC ±3 VDC

Average Power Dissipation Rate:

8 watts

Peak Power Dissipation Rate:

722.5 watts

Short-Circuit Protection

Powers down the 75 VDC output if there is a short circuit in output cables or drives. This is a latched condition. Cycle AC power to resume normal operations.

If short circuit 9 amps

Response time is immediate (output shuts down)

If short circuit 6 amps

Responds in 3 sec

Overvoltage Protection

The output overvoltage protection circuit shuts down the power module if the power dump stays on continuously for more than one-half second. This is a latched condition. Correct the problem, then cycle AC power to resume normal operations.

Operating Temperatures

Max Ambient: Still Air  
 Max Ambient: Moving Air  
 Max Heatplate Temperature  
 Min Ambient Temperature

35°C (95°F) with a 200 W load; 40°C (104°F) with a 170 W load  
 45°C (113°F) with a 200 W load; 50°C (122°F) with a 170 W load  
 60°C (140°F)  
 0°C (32°F)

OEM300 Power Module Dimensions

Dimensions in inches (mm)

